

bis(cyclopentadienyl) titanium dichloride,
 bis(methylcyclopentadienyl) titanium dichloride,
 bis(dimethylcyclopentadienyl) titanium dichloride,
 bis(trimethylcyclopentadienyl) titanium dichloride,
 bis(tetramethylcyclopentadienyl) titanium dichloride,
 bis(pentamethylcyclopentadienyl) titanium dichloride,
 bis(n-butylcyclopentadienyl) titanium dichloride,
 bis(indenyl) titanium dichloride, bis(fluorenyl) titanium
 dichloride, bis(cyclopentadienyl) titanium chlorohydrate,
 bis(cyclopentadienyl) methyltitanium chloride,
 bis(cyclopentadienyl) ethyltitanium chloride,
 bis(cyclopentadienyl) phenyltitanium chloride,
 bis(cyclopentadienyl) dimethyltitanium,
 bis(cyclopentadienyl) diphenyltitanium,
 bis(cyclopentadienyl) dineopentyltitanium,
 bis(cyclopentadienyl) dihydrotitanium,
 (cyclopentadienyl) (indenyl) titanium dichloride,
 (cyclopentadienyl) (fluorenyl) titanium dichloride, etc.

(2) Transition metal compounds having two conjugated,
 5-membered cyclic ligands, in which the two ligands are
 crosslinked with an alkylene group, such as
 methylenebis(indenyl) titanium dichloride,
 ethylenebis(indenyl) titanium dichloride,
 methylenebis(indenyl) titanium chlorohydrate,
 ethylenebis(indenyl) methyltitanium chloride,

ethylenebis(indenyl)methoxychlorotitanium,
 ethylenebis(indenyl) titanium diethoxide,
 ethylenebis(indenyl)dimethyltitanium, ethylenebis(4,5,6,7-
 tetrahydroindenyl) titanium dichloride, ethylenebis(2-
 methylindenyl) titanium dichloride, ethylenebis(2,4-
 dimethylindenyl) titanium dichloride, ethylenebis(2-methyl-
 4-trimethylsilylindenyl) titanium dichloride,
 ethylenebis(2,4-dimethyl-5,6,7-trihydroindenyl) titanium
 dichloride, ethylene(2,4-dimethylcyclopentadienyl) (3',5'-
 dimethylcyclopentadienyl) titanium dichloride, ethylene(2-
 methyl-4-t-butylcyclopentadienyl) (3'-t-butyl-5'-
 methylcyclopentadienyl) titanium dichloride,
 ethylene(2,3,5-trimethylcyclopentadienyl) (2',4',5'-
 trimethylcyclopentadienyl) titanium dichloride,
 isopropylidenebis(2-methylindenyl) titanium dichloride,
 isopropylidenebis(indenyl) titanium dichloride,
 isopropylidenebis(2,4-dimethylindenyl) titanium dichloride,
 isopropylidene(2,4-dimethylcyclopentadienyl) (3',5'-
 dimethylcyclopentadienyl) titanium dichloride,
 isopropylidene(2-methyl-4-t-butylcyclopentadienyl) (3'-t-
 butyl-5'-methylcyclopentadienyl) titanium dichloride,
 methylene(cyclopentadienyl) (3,4-
 dimethylcyclopentadienyl) titanium dichloride,
 methylene(cyclopentadienyl) (3,4-
 dimethylcyclopentadienyl) titanium chlorohydrate,

methylene(cyclopentadienyl) (3,4-
 dimethylcyclopentadienyl)dimethyltitanium,
 methylene(cyclopentadienyl) (3,4-
 dimethylcyclopentadienyl)diphenyltitanium,
 methylene(cyclopentadienyl) (trimethylcyclopentadienyl) -
 titanium dichloride,
 methylene(cyclopentadienyl) (tetramethylcyclopentadienyl) -
 titanium dichloride, isopropylidene(cyclopentadienyl) (3,4-
 dimethylcyclopentadienyl) titanium dichloride,
 isopropylidene(cyclopentadienyl) (2,3,4,5-
 tetramethylcyclopentadienyl) titanium dichloride,
 isopropylidene(cyclopentadienyl) (3-methylindenyl) titanium
 dichloride,
 isopropylidene(cyclopentadienyl) (fluorenyl) titanium
 dichloride, isopropylidene(2-
 methylcyclopentadienyl) (fluorenyl) titanium dichloride,
 isopropylidene(2,5-dimethylcyclopentadienyl) (3,4-
 dimethylcyclopentadienyl) titanium dichloride,
 isopropylidene(2,5-
 dimethylcyclopentadienyl) (fluorenyl) titanium dichloride,
 ethylene(cyclopentadienyl) (3,5-
 dimethylcyclopentadienyl) titanium dichloride,
 ethylene(cyclopentadienyl) (fluorenyl) titanium dichloride,
 ethylene(2,5-dimethylcyclopentadienyl) (fluorenyl) titanium
 dichloride, ethylene(2,5-